

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

PUBLICATION NUMBER : 08182274  
PUBLICATION DATE : 12-07-96

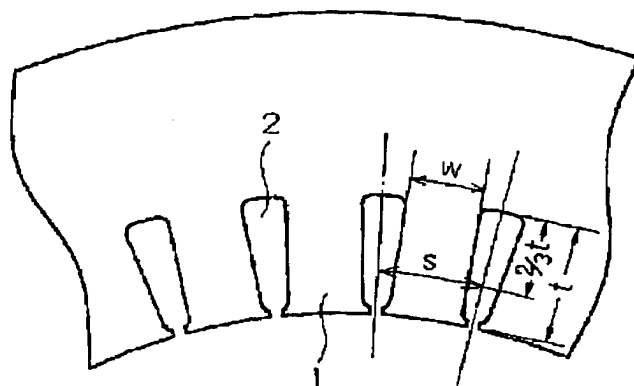
APPLICATION DATE : 20-12-94  
APPLICATION NUMBER : 06334571

APPLICANT : NISSAN MOTOR CO LTD;

INVENTOR : KITADA SHINICHIRO;

INT.CL. : H02K 17/08 H02K 1/16 H02K 17/12

TITLE : INDUCTION MOTOR



ABSTRACT : PURPOSE: To provide a compact, high efficiency induction motor capable of reducing the capacity of a powder element for a drive unit.

CONSTITUTION: Width ( $w$ ) of teeth 1 at  $2/3$  height of a slot 2 is set to 85% of a slot pitch ( $s$ ). Magnetic flux density of teeth is determined by a saturated magnetic flux density of a stator material, rated rotating speed and the maximum rotating speed maintaining a constant output. Since the magnetic flux density in teeth is reduced while maintaining the magnetic flux density of air gap, the light weight and compactness of the induction motor can be realized, the rated rotating speed and maximum, rotating speed can be driven by a voltage of the same level, and therefore an effect of not increasing the power capacity of a power element of the drive unit can be obtained.

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